### **INTERSECTION 133**

## Prairie Avenue/Redondo Beach Boulevard Improvement(s)

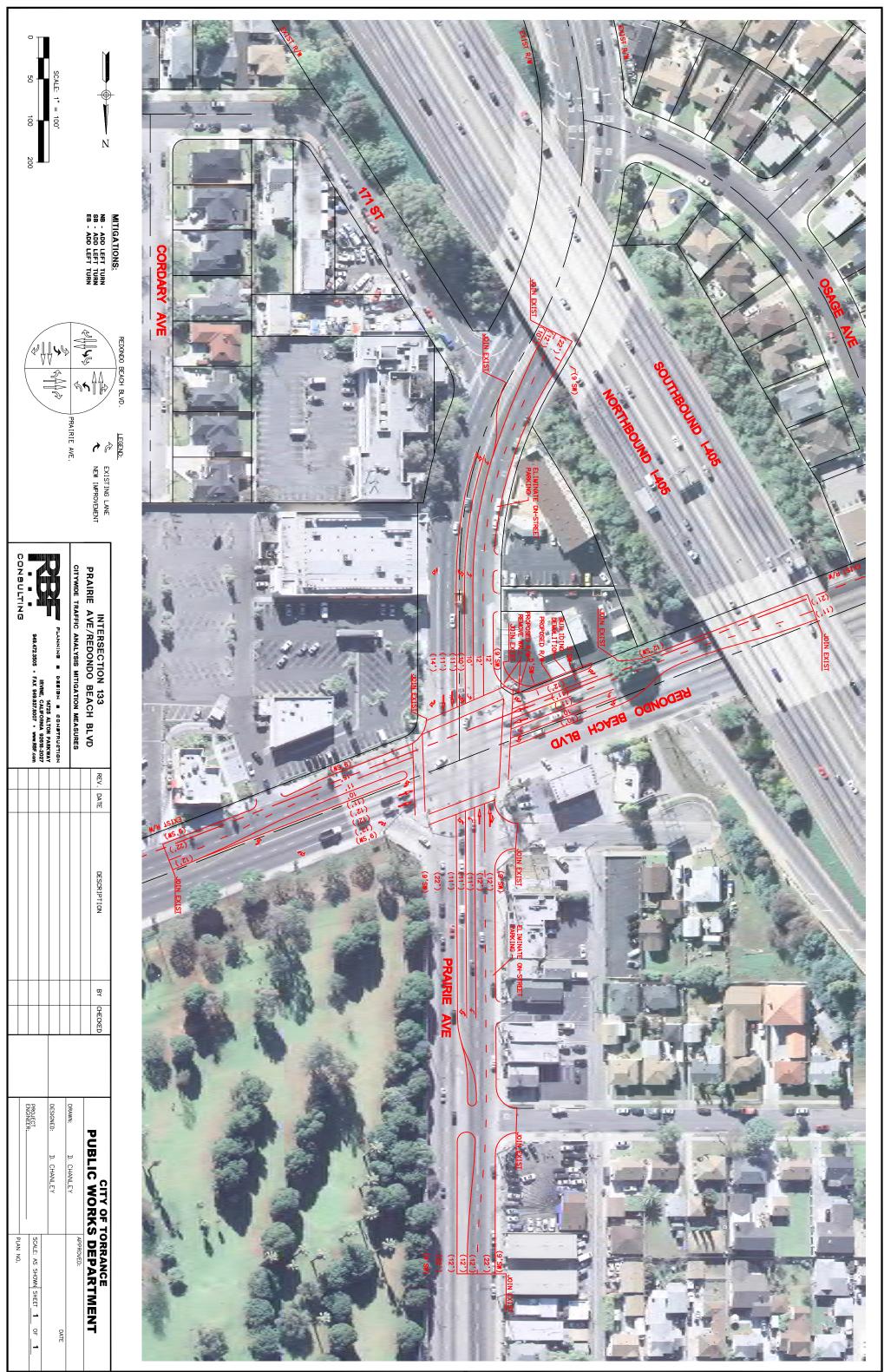
#### **Forecast Near-Term Conditions Intersection LOS Summary**

|                        | Weekday<br>AM Peak Hour | Weekday<br>Mid-Day Peak Hour | Weekday<br>PM Peak Hour | Weekend<br>Mid-Day Peak Hour |
|------------------------|-------------------------|------------------------------|-------------------------|------------------------------|
| Without Improvement(s) | 49.0 – D                | 43.7 – D                     | 71.6 – E                | 40.3 – D                     |
| With Improvement(s)    | 41.1 – D                | 39.0 – D                     | 50.6 – D                | 36.5 – D                     |

Note: Delay shown in seconds per vehicle; Deficient intersection operation shown in bold italics.

#### **Recommended Improvements:**

- Widen the northbound Prairie Avenue approach from one left-turn lane, two through lanes, and one right-turn lane to consist of two left-turn lanes, two through lanes and one right-turn lane.
- Widen the southbound Prairie Avenue approach from one left-turn lane, two through lanes, and one right-turn lane to consist of two left-turn lanes, two through lanes and one right-turn lane.
- Implementation of the recommended improvements identified at the Prairie Avenue/Redondo Beach Boulevard intersection will require City acquisition of approximately 12-feet of right-of-way on the northbound and southbound Prairie Avenue approaches and departures to provide adequate alignment of northbound and southbound Prairie Avenue through lanes.
- Additionally, widen the eastbound Redondo Beach Boulevard approach from one left-turn lane, two through lanes, and one right-turn lane to consist of two left-turn lanes, two through lanes, and one right-turn lane.
- Implementation of the improvements identified at the Prairie Avenue/Redondo Beach Boulevard intersection will require City acquisition of approximately 12-feet of right-of-way on the eastbound Redondo Beach Boulevard approach and departure to provide adequate alignment of eastbound Redondo Beach Boulevard through lanes.



# CITY OF TORRANCE CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES PRELIMINARY COST ESTIMATES

Location: Intersection 133: Prairie Avenue/Redondo Beach Boulevard

Mitigation: Widen the northbound Prairie Avenue approach to consist of two left-turn lanes,

two through lanes and one right-turn lane. Widen the southbound Prairie
Avenue approach to consist of two left-turn lanes, two through lanes and one
right-turn lane.

| 2 Cle 3 Rei 4 Rei 5 Rei 6 Rei 7 Rei 8 Rei 9 Rei 10 Rei 11 Rei 12 Rei 13 Rei 14 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai 38 Coi   | obilization lear & Grub emove Striping emove Curb & Gutter emove Median Curb emove PCC Sidewalk emove Pavement emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter elocate Bus Shelter | 10.00% (\$2,000 Min) \$10,000.00 / AC \$10.00 / LF \$15.00 / LF \$33.00 / LF \$33.50 / SF \$4.00 / SF \$50.00 / LF \$15.00 / LF \$15.00 / LF \$10.00 / LF \$10.00 / LF \$10.00 / LF \$10.00 / LF \$30.00 / EA \$70.00 / EA \$70.00 / EA \$10.00 / EA \$10.00 / EA \$300,000 / EA \$300,000 / EA \$300,000 / EA \$1,000 / EA \$300,000 / EA \$50,000 / EA \$50,000 / EA \$25,000 / EA   | 1,785<br>220<br>1,550<br>67<br>220<br>0.25 | \$29,000<br>\$0<br>\$17,900<br>\$3,000<br>\$5,000<br>\$5,000<br>\$0<br>\$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0 |  |  |  |
|---|---|--|--|--|--|--|--|
| 3 Rei 4 Rei 5 Rei 6 Rei 7 Rei 8 Rei 9 Rei 10 Rei 11 Rei 12 Rei 13 Rei 14 Rei 15 Sai 16 Rei 17 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Re 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | emove Striping emove Curb & Gutter emove Median Curb emove PCC Sidewalk emove Pavement emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Power Pole elocate Power Pole elocate Fire Hydrant elocate Bus Shelter  | \$10.00 / LF \$15.00 / LF \$30.00 / LF \$30.00 / LF \$33.50 / SF \$4.00 / SF \$4.00 / SF \$50.00 / LF \$15.00 / LF \$15.00 / LF \$10.00 / EA \$1.00 / LF \$25,00.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$20,000.00 / EA \$20,000.00 / EA \$25,000.00 / EA  | 220<br>1,550<br>67<br>220<br>0.25          | \$17,900<br>\$3,000<br>\$0<br>\$5,000<br>\$0<br>\$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0                        |  |  |  |
| 4 Rei 5 Rei 6 Rei 7 Rei 8 Rei 10 Rei 11 Rei 11 Rei 12 Rei 13 Rei 14 Rei 15 Sai 16 Re 17 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Re 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | emove Curb & Gutter emove Median Curb emove PCC Sidewalk emove Pavement emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Power Pole elocate Power Pole elocate Fire Hydrant elocate Fire Hydrant elocate Bus Shelter                                      | \$15.00 / LF \$30.00 / LF \$30.00 / LF \$3.50 / SF \$4.00 / SF \$50.00 / LF \$15.00 / LF \$15.00 / LF \$10.00 / LF \$50.00 / LF \$10.00 / LF \$300.00 / EA \$70.00 / LF \$3,000.00 / EA \$1.00 / LF \$7,500.00 / EA \$1.00 / LF \$7,500.00 / EA \$10,000.00 / EA \$20,000.00 / EA \$20,000.00 / EA   | 220<br>1,550<br>67<br>220<br>0.25          | \$3,000<br>\$0<br>\$5,000<br>\$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0                                    |  |  |  |
| 5 Rei 6 Rei 7 Rei 8 Rei 9 Rei 11 Rei | emove Median Curb emove PCC Sidewalk emove PCC Sidewalk emove Pavement emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System Ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Bus Shelter   | \$30.00 / LF \$3.50 / SF \$4.00 / SF \$50.00 / LF \$15.00 / LF \$15.00 / LF \$10.00 / LF \$50.00 / LF \$50.00 / LF \$50.00 / LF \$60.00 / LF \$70.00 / LF \$60.00 / LF | 1,550<br>67<br>220<br>0.25                 | \$0<br>\$5,000<br>\$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0  |  |  |  |
| 7 Rei 8 Rei 9 Rei 10 Rei 11 Rei 11 Rei 13 Rei 14 Rei 15 Sau 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 32 Adj 33 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai   | emove Pavement emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter  | \$4.00 / SF \$50.00 / LF \$15.00 / LF \$15.00 / LF \$50.00 / LF \$50.00 / LF \$10.00 / LF \$800.00 / EA \$70.00 / LF \$3,000.00 / EA \$1.00 / LF \$7,500.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$25,000.00 / EA \$25,000.00 / EA   | 220  | \$0<br>\$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0  |  |  |  |
| 8 Rei 9 Rei 10 Rei 11 Rei 11 Rei 12 Rei 13 Rei 14 Rei 15 San 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Ree 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 30 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai   | emove Wall emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$50.00 / LF \$15.00 / LF \$15.00 / LF \$50.00 / LF \$50.00 / LF \$10.00 / LF \$800.00 / EA \$70.00 / LF \$3,000.00 / EA \$1,000 / EA \$10,000 / EA \$10,000 / EA \$10,000 / EA \$10,000 / EA \$25,000 / EA \$25,000 / EA  | 220  | \$3,000<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$0<br>\$75,000<br>\$0<br>\$0  |  |  |  |
| 9 Rei 10 Rei 11 Rei 11 Rei 12 Rei 13 Rei 14 Rei 15 Sau 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Re 30 Rei 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai   | emove Channel emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Fire Hydrant elocate Bus Shelter  | \$15.00 / LF<br>\$50.00 / LF<br>\$10.00 / LF<br>\$10.00 / LF<br>\$800.00 / EA<br>\$70.00 / LF<br>\$3,000.00 / EA<br>\$1.00 / LF<br>\$7,500.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$300.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA   | 220  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0<br>\$0   |  |  |  |
| 10 Rei 11 Rei 12 Rei 13 Rei 14 Rei 15 San 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | emove/Replace Chain Link Fence emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter  | \$50.00 / LF<br>\$10.00 / LF<br>\$800.00 / EA<br>\$70.00 / LF<br>\$3,000.00 / EA<br>\$1.00 / LF<br>\$7,500.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA   | 0.25                                       | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0<br>\$0  |  |  |  |
| 11 Rei 12 Rei 13 Re- 14 Rei 15 San 16 Re 17 Rei 18 Sig 19 Rei 20 Rei 21 Re- 22 Rei 23 Rei 24 Rei 25 Rei 26 Re 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | emove/Replace Wrought Iron Fence emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$10.00 / LF \$800.00 / EA \$70.00 / LF \$3,000.00 / EA \$1.00 / LF \$7,500.00 / EA \$300,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$10,000.00 / EA \$25,000.00 / EA \$25,000.00 / EA \$25,000.00 / EA \$25,000.00 / EA  | 0.25                                       | \$0<br>\$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0<br>\$0  |  |  |  |
| 12 Rei 13 Rei 14 Rei 15 Sai 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Re 31 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai 38 Coi   | emove/Replace Survey Monument econstruct Metal Beam Guard Rail emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System Ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Bus Shelter   | \$800.00 / EA<br>\$70.00 / LF<br>\$3,000.00 / EA<br>\$1.00 / LF<br>\$7,500.00 / EA<br>\$300,000.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$10,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA  | 0.25                                       | \$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0<br>\$0<br>\$0  |  |  |  |
| 14 Rei 15 Sai 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 30 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | emove & Relocate Tree awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) elocate Sign (1 Post) elocate Call Box elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$70.00 / LF \$3,000.00 / EA \$1.00 / LF \$7,500.00 / EA \$300,000.00 / EA \$10,000.00 / EA \$1,000.00 / EA \$300.00 / EA \$50,000.00 / EA \$25,000.00 / EA \$9,000.00 / EA \$25,000.00 / EA   | 0.25                                       | \$0<br>\$0<br>\$200<br>\$75,000<br>\$0<br>\$0<br>\$0   |  |  |  |
| 15 San 16 Rel 17 Rel 18 Sig 19 Rel 20 Rel 21 Ree 22 Rel 23 Rel 24 Rel 25 Rel 26 Rel 27 Rel 30 Rel 31 Rel 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Ean 38 Cool   | awcut elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$1.00 / LF<br>\$7,500.00 / EA<br>\$300,000.00 / EA<br>\$10,000.00 / EA<br>\$1,000.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA   | 0.25                                       | \$200<br>\$0<br>\$75,000<br>\$0<br>\$0<br>\$0<br>\$0   |  |  |  |
| 16 Rei 17 Rei 18 Sig 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 29 Re 30 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai  | elocate Street Light elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$7,500.00 / EA<br>\$300,000.00 / EA<br>\$10,000.00 / EA<br>\$1,000.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$2,000.00 / EA<br>\$2,000.00 / EA  | 0.25                                       | \$0<br>\$75,000<br>\$0<br>\$0<br>\$0<br>\$0  |  |  |  |
| 17 Rel 18 Sig 19 Re 20 Rel 21 Ree 22 Re 23 Rel 24 Re 25 Rel 26 Re 27 Rel 29 Re 30 Rel 31 Re 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Ea   | elocate Traffic Signal System ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter  | \$300,000.00 / EA<br>\$10,000.00 / EA<br>\$1,000.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$25,000.00 / EA<br>\$2,000.00 / EA  |  | \$75,000<br>\$0<br>\$0<br>\$0<br>\$0   |  |  |  |
| 18 Sig<br>19 Rel<br>20 Rel<br>21 Re-<br>22 Rel<br>23 Rel<br>24 Rel<br>25 Rel<br>26 Rel<br>27 Rel<br>28 Rel<br>30 Rel<br>31 Rel<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eal   | ignal Phase Modification elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter  | \$10,000.00 / EA<br>\$1,000.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$9,000.00 / EA<br>\$2,500.00 / EA  |  | \$0<br>\$0<br>\$0<br>\$0   |  |  |  |
| 19 Rei 20 Rei 21 Rei 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 32 Adj 33 Adj 34 Adj 35 Adj 36 Mo 37 Eai 38 Coi  | elocate Freeway Sign (2 post) elocate Sign (1 Post) econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$1,000.00 / EA<br>\$300.00 / EA<br>\$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$9,000.00 / EA<br>\$2,500.00 / EA  |  | \$0<br>\$0<br>\$0  |  |  |  |
| 21 Re 22 Re 23 Re 24 Re 25 Re 26 Re 27 Re 28 Re 29 Re 30 Re 31 Re 32 Ad 33 Ad 33 Ad 35 Ad 36 Mo 37 Ea 38 Co   | econstruct Overhead Sign elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter   | \$50,000.00 / EA<br>\$2,000.00 / EA<br>\$25,000.00 / EA<br>\$9,000.00 / EA<br>\$2,500.00 / EA  |  | \$0  |  |  |  |
| 22 Rei 23 Rei 24 Rei 25 Rei 26 Rei 27 Rei 28 Rei 29 Rei 30 Rei 31 Rei 32 Adj 33 Adj 35 Adj 36 Mo 37 Eai 38 Coi  | elocate Call Box elocate Power Pole elocate Catch Basin elocate Fire Hydrant elocate Bus Shelter  | \$2,000.00 / EA<br>\$25,000.00 / EA<br>\$9,000.00 / EA<br>\$2,500.00 / EA  |  |  |  |  |  |
| 23 Rei<br>24 Rei<br>25 Rei<br>26 Rei<br>27 Rei<br>28 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eai   | elocate Power Pole<br>elocate Catch Basin<br>elocate Fire Hydrant<br>elocate Bus Shelter  | \$25,000.00 / EA<br>\$9,000.00 / EA<br>\$2,500.00 / EA   |  |  |  |  |  |
| 24 Rei<br>25 Rei<br>26 Rei<br>27 Rei<br>28 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eai<br>38 Coi   | elocate Catch Basin<br>elocate Fire Hydrant<br>elocate Bus Shelter  | \$9,000.00 / EA<br>\$2,500.00 / EA   |  | \$0  |  |  |  |
| 25 Rei<br>26 Rei<br>27 Rei<br>28 Rei<br>29 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eai<br>38 Coi   | elocate Fire Hydrant<br>elocate Bus Shelter   | \$2,500.00 / EA  | 11   | \$0<br>\$9,000   |  |  |  |
| 26 Rei<br>27 Rei<br>28 Rei<br>29 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eai<br>38 Coi   | elocate Bus Shelter   |  | <u> </u>                                   | \$9,000  |  |  |  |
| 28 Rei<br>29 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eai<br>38 Coi   | alacata Dua Danah   | \$2,000.00 / EA  |  | \$0  |  |  |  |
| 29 Rei<br>30 Rei<br>31 Rei<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Ear<br>38 Coo   | elocate bus bench   | \$600.00 / EA  |  | \$0  |  |  |  |
| 30 Rel<br>31 Rel<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Ear<br>38 Cor   | elocate Monument Sign   | \$5,000.00 / EA  |  | \$0  |  |  |  |
| 31 Rel<br>32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Eat<br>38 Co  | elocate Utility Boxes   | \$500.00 / EA  |  | \$0  |  |  |  |
| 32 Adj<br>33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Ear<br>38 Cor   | elocate Main Water Valve<br>elocate Utility Vault   | \$10,000.00 / EA<br>\$3,000.00 / EA  | 1  | \$0<br>\$3,000   |  |  |  |
| 33 Adj<br>34 Adj<br>35 Adj<br>36 Mo<br>37 Ear<br>38 Co  | djust Manhole to Grade  | \$1,000.00 / EA  | 1  | \$1,000  |  |  |  |
| 35 Adj<br>36 Mo<br>37 Ear<br>38 Cor   | djust Water Meter   | \$2,000.00 / EA  |  | \$0  |  |  |  |
| 36 Mo<br>37 Ear<br>38 Co  | djust Water Valve   | \$500.00 / EA  |  | \$0  |  |  |  |
| 37 Ear<br>38 Co   | djust Minor Above Ground Utilities  | \$500.00 / EA  |  | \$0  |  |  |  |
| 38 Co   | odify Driveway  | \$5,000.00 / EA  | 5  | \$25,000   |  |  |  |
|   | arthwork onstruct PCC Pavement  | \$40.00 / CY<br>\$15.00 / SF   | 240  | \$10,000<br>\$0  |  |  |  |
|   | onstruct AC Pavement  | \$14.00 / SF   | 1,275                                      | \$18,000   |  |  |  |
|   | onstruct AC Overlay   | \$3.00 / SF  | 1,210                                      | \$0  |  |  |  |
| 41 Co   | onstruct Slurry Seal  | \$0.25 / SF  |  | \$0  |  |  |  |
|   | onstruct Striping & Marking   | \$4.00 / LF  | 1,785                                      | \$7,200  |  |  |  |
|   | onstruct AC Dike  | \$7.00 / LF  | 400  | \$0  |  |  |  |
|   | onstruct Curb & Gutter<br>onstruct Concrete Barrier   | \$40.00 / LF<br>\$50.00 / LF   | 190  | \$8,000<br>\$0   |  |  |  |
|   | onstruct Median Curb  | \$20.00 / LF   |  | \$0  |  |  |  |
|   | onstruct Median Concrete  | \$10.00 / SF   |  | \$0  |  |  |  |
|   | onstruct Median/Parkway Landscaping   | \$10.00 / SF   |  | \$0  |  |  |  |
| .0 00.  | onstruct PCC Sidewalk   | \$10.00 / SF   | 1,010                                      | \$10,000   |  |  |  |
|   | onstruct Access Ramp  | \$5,000.00 / EA  | 1  | \$5,000  |  |  |  |
|   | onstruct Retaining Wall onstruct Storm Drain Main   | \$50.00 / SF<br>\$100.00 / LF  |  | \$0<br>\$0   |  |  |  |
|   | onstruct RCB  | \$1,000.00 / LF  |  | \$0  |  |  |  |
|   | onstruct Headwall   | \$5,000.00 / EA  |  | \$0  |  |  |  |
|   | onstruct Concrete V-Ditch   | \$15.00 / LF   |  | \$0  |  |  |  |
|   | onstruct Bridge Widening  | \$500.00 / SF  |  | \$0  |  |  |  |
|   | onstruct Wall uilding/Structure Demolition (1-Story Bldg)   | \$70.00 / LF   | 67   | \$5,000  |  |  |  |
|   | raffic Control (\$5,000 min)  | \$10.00 / SF<br>8%   | 1  | \$0<br>\$16,000  |  |  |  |
|   | rainage Items   | 10%  | 1  | \$22,000   |  |  |  |
|   | WPPP Plan and Implementation  | 6%   | 1  | \$13,524   |  |  |  |
| СО  | ONSTRUCTION SUBTOTAL  |  |  | \$285,824  |  |  |  |
|   | ight-of-Way   | 100 / SF   | 655  | \$66,000   |  |  |  |
|   | ight-of-Way Management IGHT-OF-WAY SUBTOTAL   | 5 / %  |  | \$3,000  |  |  |  |
|   |   | \$69,000<br>\$355,000  |  |  |  |  |  |
|   | DTAL CONSTRUCTION & RIGHT-OF-WAY COST eliminary Project Development (10% of total Construction/RW cost)   |  |  |  |  |  |  |
|   | sign Engineering/Administration Costs (15% of total Construction/RW cost) (\$10,000 min)  |  |  |  |  |  |  |
|   |   | Construction Engineering Costs/Administration (10% of total Construction/RW cost) (\$5,000 min)  |  |  |  |  |  |
|   | ,   | (1017) (1017)  |  | \$36,000<br>\$71,000   |  |  |  |
| TOTAL PR  | ,   |  |  | <u> </u>   |  |  |  |

Date: 4/1/2008

Estimated by: D.Chanley